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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/840,426	04/20/2001	Ming King Wong	02369	4187	
SALTER & M	7590 01/17/200 IICHAELSON	77	EXAM	INER	
321 SOUTH N	MAIN STREET		PRICE, CARL D  ART UNIT PAPER NUMBER		
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SHORTENED STATUTO	RY PERIOD OF RESPONSE	MAIL DATE '	DELIVER	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)	<u> </u>
Office Action Summary		09/840,426	WONG, MING KING	
		Examiner	Art Unit	
		CARL D. PRICE	3749	
Period fo	The MAILING DATE of this communication apport Reply	ears on the cover sheet with the c	orrespondence address	
A SHI WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depend for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. nely filed the mailing date of this communication 0. (35 U.S.C. 8 133)	
Status				
2a)⊠	Responsive to communication(s) filed on 10/24 This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.  nce except for formal matters, pro		
Dispositi	on of Claims			
5)⊠ 6)⊠ 7)□ 8)□  Applicati 9)□ 10)□	Claim(s) 1-29 is/are pending in the application.  4a) Of the above claim(s) is/are withdray Claim(s) 4-20 is/are allowed.  Claim(s) 1-3,21-29 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or on Papers  The specification is objected to by the Examine The drawing(s) filed on is/are: a) acceeding a content of the drawing sheet(s) including the correction of the original process of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the oath of the oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the oath of the	vn from consideration.  r election requirement.  r.  epted or b) □ objected to by the B drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d	).
Priority u	ınder 35 U.S.C. § 119			
a)[	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priorical application from the International Bureausee the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage	
2) 🔲 Notic 3) 🔲 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

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#### **DETAILED ACTION**

#### Response to Arguments

Applicant's arguments with respect to claims 1-29 have been considered but are moot in view of the new ground(s) of rejection.

Applicant has amended the claims to be of a scope not previously considered. Consistent with applicant's argument that the prior art relied on in the previous office action fail to show, disclose and/or teach certain aspects of applicant's invention now recited in the claims filed on 10/24/2006, applicant has amended the claims to include for example at least the following:

(Claim 1)

An interchangeable piezoelectric lighter, comprising:

a casing receiving liquefied gas storage and having a switcher cavity provided therein;

a gas valve operatively extended from said liquefied gas storage for controlling a flow of gas;

a piezoelectric unit fitted in said casing for generating piezoelectricity; an ignition button mounted to said casing in a movable manner, wherein said ignition button is arranged to compress said piezoelectric unit when said ignition button is depressed; and

a flame interchanging means for selectively interchanging a flame of said piezoelectric lighter, comprising a valve switcher movably received in said switcher cavity, wherein said valve switcher comprises at least two <u>parallel arranged</u> gas nozzles selectively and coaxially aligning with said gas valve for said flow of gas passing therethrough so as to produce different flames;

said valve switcher being manually movable in a direction orthogonal to both said gas nozzles so as to selectively and coaxially align said nozzles with said gas valve.

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The prior art references of US000284631 (Hall, Jr.) and US000773203 (Fosdick) are now relied on to address the scope of the now claimed invention. US000284631 (Hall, Jr.) and US000773203 (Fosdick) each show a valve switcher manually movable in a direction orthogonal to a plurality of parallel gas nozzles of a different type, producing different shaped flames, so as to selectively and coaxially align said nozzles with said gas valve.

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#### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1-29, the word "means" is preceded by the word(s) " flame interchanging " in an attempt to use a "means" clause to recite a claim element as a means for performing a specified function. However, since no function is specified by the word(s) preceding "means," it is impossible to determine the equivalents of the element, as required by 35 U.S.C. 112, sixth paragraph. See *Ex parte Klumb*, 159 USPQ 694 (Bd. App. 1967).

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 and 25-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over US003309902 (Kanamaru) (or record) in view of US000284631 (Hall, Jr.) (of record) or US000773203 (Fosdick) (newly cited) and US005308240 (Lowenthal) (or record).

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US003309902 (Kanamaru) shows an interchangeable lighter which "is envisioned for use in virtually any type of gas fueled cigarette lighter no effort will be made to describe such conventional construction" (see column 2, lines 7-16), comprising:

- a casing (11) receiving a liquefied gas storage;
- a gas valve (10, 16, 18) operatively extended from the liquefied gas storage for controlling a flow of gas;
- an ignition button mounted to the casing in a movable manner (not shown; "the inside top portion 22 of cylindrical member 20 is also conical in configuration and complementary with respect to top 18 of burner nozzle 10, such that when cylindrical member 20 is moved downwardly by *any conventional mechanism*, such as lever 24 for example, surfaces 18 and 22 abut precisely"), wherein the ignition button is arranged to compress the piezoelectric unit when the ignition button is depressed; and
- a flame interchanging means for selectively interchanging a flame of the piezoelectric lighter:
  - o comprising a valve switcher (20) movably received in, wherein the valve switcher comprises at least two gas nozzles (26, 30, 32, 34, 42) selectively and coaxially aligning with the gas valve for the flow of gas passing therethrough so as to produce different flames; and

wherein the flame interchangeable means further comprises a gas adapter (10, 36, 38) fitted in the lighter wherein the valve switcher (20) is supported on the gas adapter and a gas emitter (16, 18, 22) having an inlet end operatively extended from the gas valve and a gas releasing end (12) penetrated through the gas adapter so as to selectively align with one of the gas nozzles.

US003309902 (Kanamaru) shows and discloses invention substantially as set forth in the claims with possible exception to:

an ignition button;

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a switcher cavity; and

a piezoelectric unit fitted in the casing for generating piezoelectricity; and

- the valve switcher being manually movable in a direction orthogonal to a plurality of parallel gas nozzles, so as to selectively and coaxially align the nozzles with said gas valve.

**US000284631 (Hall, Jr.)** teaches, form applicant's same gas burner field of endeavor, a valve switcher (f) being manually movable in a direction orthogonal to a plurality of different parallel gas nozzles (3, 6, 9, 12), so as to selectively and coaxially align the nozzles with the gas valve.

**US000773203 (Fosdick)** teaches, form applicant's same gas burner field of endeavor, a valve switcher (8) being manually movable in a direction orthogonal to a plurality of different parallel gas nozzles (22), so as to selectively and coaxially align the nozzles with the gas valve.

US005308240 (Lowenthal) teaches, form applicant's same gas lighter field of endeavor, operating a gas lighter valve(s) located in a switcher cavity (figure 6) with an ignition button (24B) connected both to a piezoelectric unit (25B) fitted in the casing for generating electricity, and attached to a gas valve control lever (27B).

In regard to claims 1-3 and 25-29, for the purpose of providing suitable means to generate and electric current to ignite the fuel gas and for the purpose of operating the valve control lever, it would have been obvious to a person having ordinary skill in the art to modify US003309902 (Kanamaru) to include conventional operating elements such as locating the valve and nozzle in a cavity and an ignition button connected both to a piezoelectric unit (25B) fitted in the casing for generating electricity, and attached to a gas valve control lever (27B), in view of the teaching of US005308240 (Lowenthal). In addition, for the purpose of providing additional optional flames, it would have been obvious to a person having ordinary skill in the art to modify the valve switcher to be manually movable in a direction orthogonal to a plurality of parallel gas nozzles of a different type, producing different shaped flames, so as to selectively and coaxially align said nozzles with said gas valve, in view of the teaching of US000284631 (Hall, Jr.) or

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US003773203 (Fosdick). In regard to claim 3, any one of the three nozzles (26, 34, 42) of US003309902 (Kanamaru) located on the outer surface, understood as the obvious structural and functional equivalent to applicant's broadly claimed "ceiling", are each capable of being windproof or resistant to wind at least to some degree, depending on the amount of wind. Applicant having provided no structure that would otherwise distinguish the claimed invention over the prior art of record.

#### Allowable Subject Matter

Claims **4-20** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## Conclusion

See the attached USPTO for, 892 for prior art made of record and not relied upon which is considered pertinent to applicant's disclosure.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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# **USPTO CUSTOMER CONTACT INFORMATION**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CARL D. PRICE whose telephone number is (571) 272-4880. The examiner can normally be reached on Monday through Friday between 6:30am-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Josiah Cocks can be reached on (571) 272-4874. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CARL D. PRICE

**Primary Examiner** 

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